I. *Obſervations made at* Rome, *by the late Reverend Mr.* John Ray, *of the Comet which appeared* Anno 1664. *Communicated to the Publiſher by Mr.* Samuel Dale.

December the 20*th* 1664, S. N.

ABout three of the Clock this Morning, I obſerved the *Comet*; it was in the Conſtellation of *Hydra*, not far from the Foot of *Crater*. It appeared about the bigneſs of a Star of the firſt Magnitude, but nothing ſo lucid and bright. It had a very long Tail, which pointed almoſt directly towards the Heart of *Hydra*: The Tail ſhew'd ſomewhat like Rays of a Candle burning in a Miſt: The Figure of it was Conical; the Length of it 5 or 6 Degrees; the Breadth at the Baſe not above a Degree and half. The Body of this *Comet* was about 3 Degrees to the South-Eaſt of the moſt Southerly Star in the foot of *Crater*; it ſtood very near in a Right Line with the two lowermoſt Stars in the Foot of *Crater*, which are common to it and *Hydra*. See the *Figures*.

December 21. In the Morning, about the ſame Hour, it was removed about a Degree and half from the Place where it ſtood, Weſtward, and a little to the South. The Tail

Tail pointed ſtill towards the Heart of *Hydræ*, and appeared 10 Degrees long at the leaſt.

December 22. At the ſame time it was removed from the Place where it ſtood the Day before, to the ſame Point, and about the ſame diſtance as the Night before. The Tail of it ſtill pointed to *Cor Hydræ*, or a little thought above it, as the two former Days, and was rather longer than ſhorter: It alſo, to my thinking, appeared brighter and larger; the Body of it being bigger then any Fixt Star, except *Sirius*.

December 23. It was removed to the ſame Point, and about the ſame Diſtance as the Day before; the Tail of it was as long as ever, and the *Comet* brighter. The Tail pointed almoſt directly to *Cor Hydræ*.

December 24, 25, 26. All theſe 3 Nights were Cloudy, ſo that I could make no Obſervations.

December 27. We found it ſtrangely removed from the Place where it was: It was ſtill Weſtward, and a little to the South, as before. The Body of the Star was ſtill brighter, and the *Cauda* about it greater, and more buſhy, and yet as long as before; it pointed almoſt directly againſt *Canis major*. The Body of it was among the Stars of *Argo*.

December 28. The ſame time it was removed above 2 Degrees towards the ſame Point, and come within 4 or 5 Degrees of the moſt Eaſtern Stars in the bright Triangle in the Buttocks of *Canis major*. The *Moon* ſhining we could not ſo well judge, either of the Bigneſs of the Body, or the length and Buſhineſs of the Tail.

December

December 29. It was ſtrangely removed, and got before, not the Eaſtern Star only of the mentioned bright *Triangle*, but alſo the moſt Northern. I think, at leaſt, in this laſt 24 Hours, it had moved 4 Degrees. The *Moon* ſhining bright, the Tail could not well be obſerved, yet ſtill it ſeemed to point directly to *Canis minor*.

II. Æquationum

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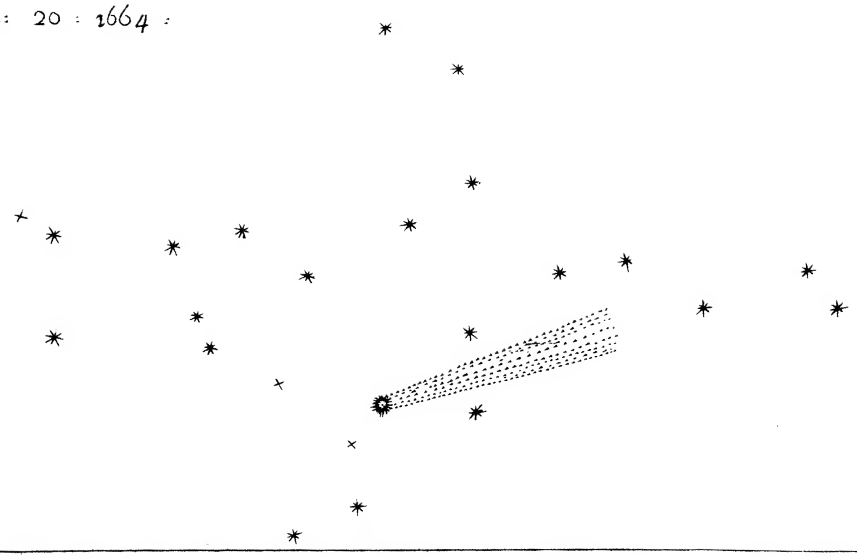

Dec: 21

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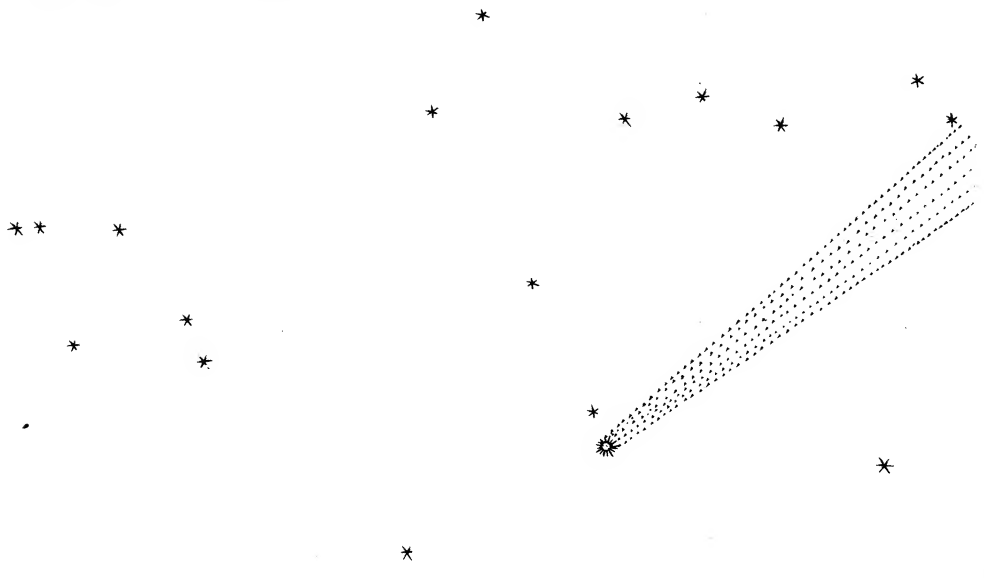

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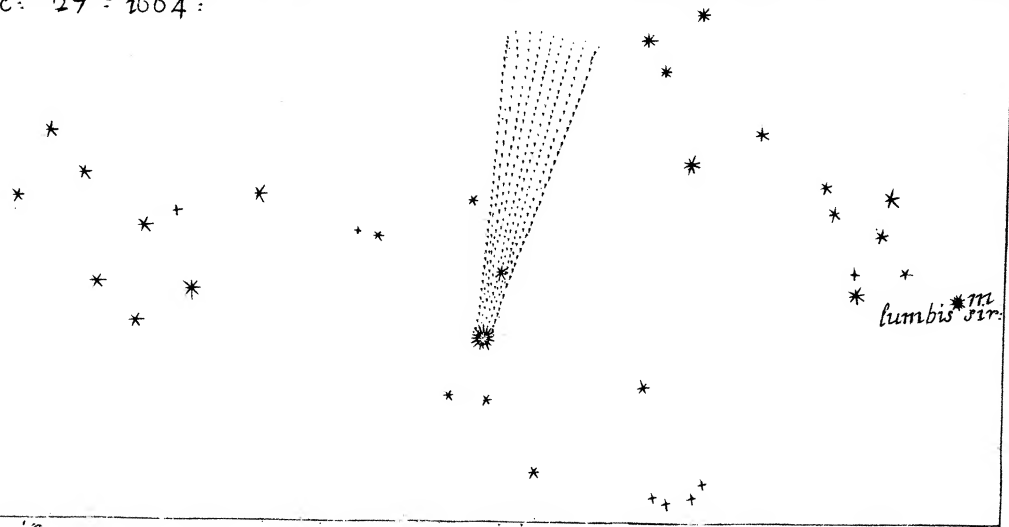

Dec: 28 : 1

Decembr. 29 :

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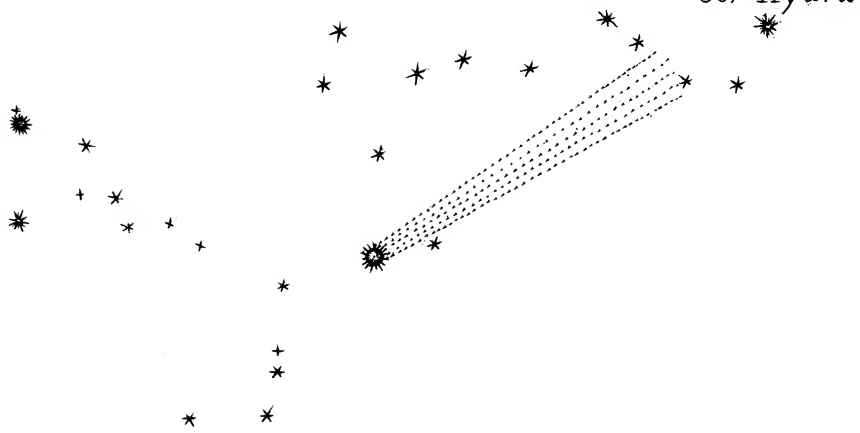
Ph: Transac: N°. 309.

Cor. Hydra



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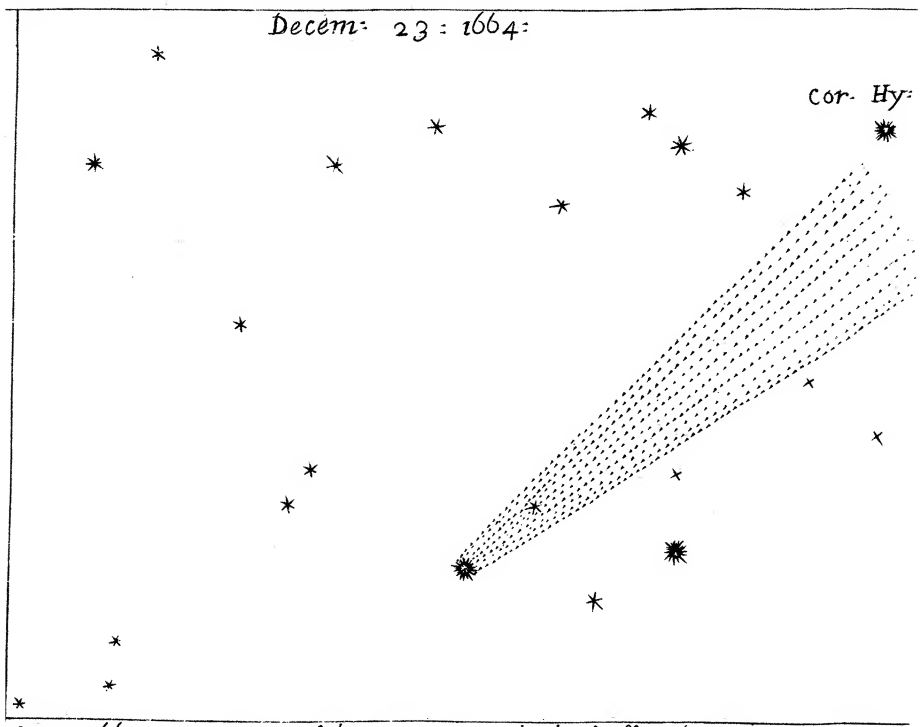
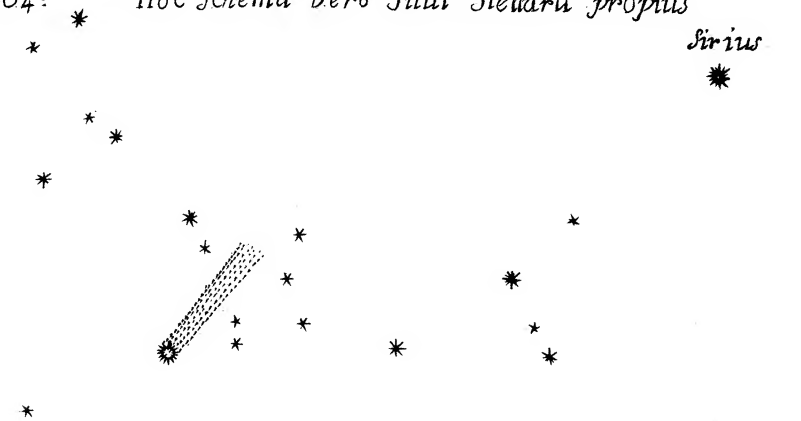
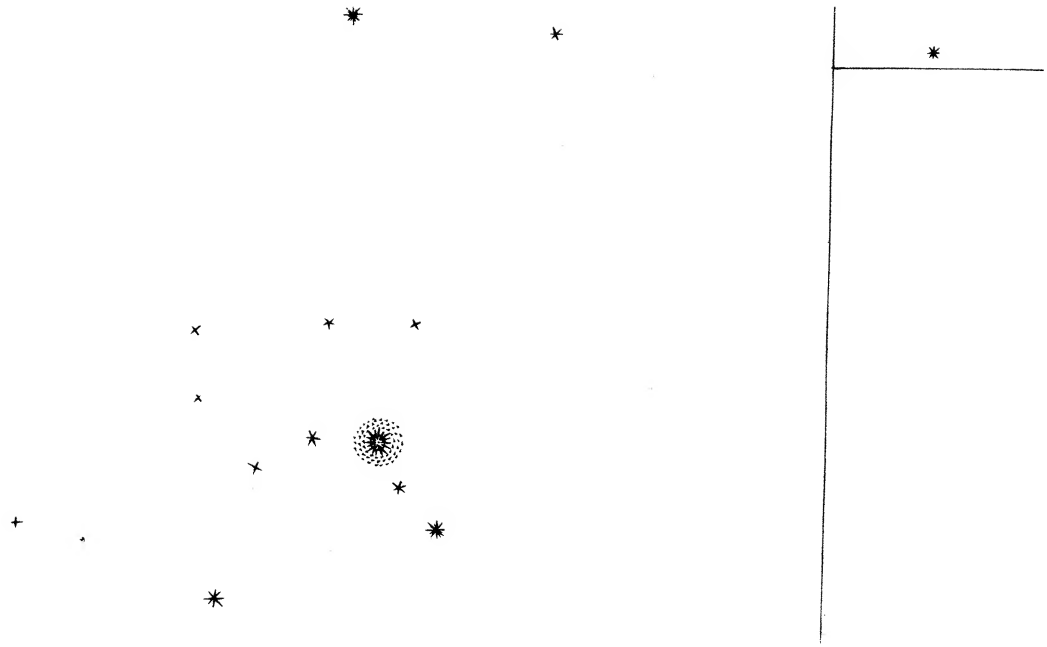
Cor. Hy:

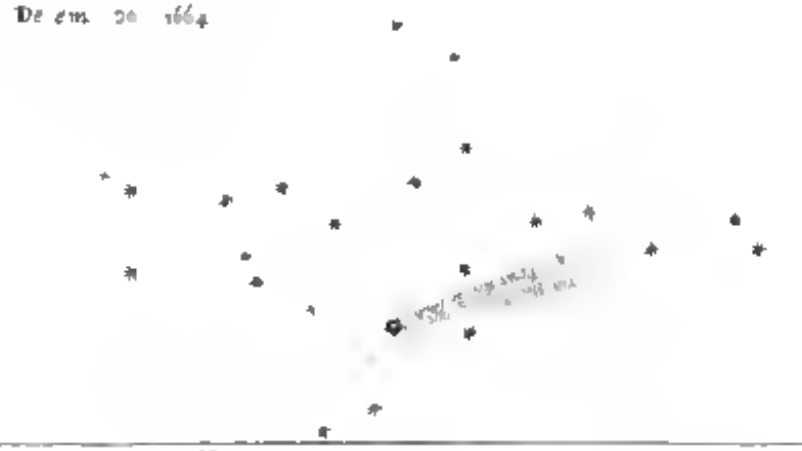


28: 1664: Hoc Schema verō Situi Stellarū propius

Sirius



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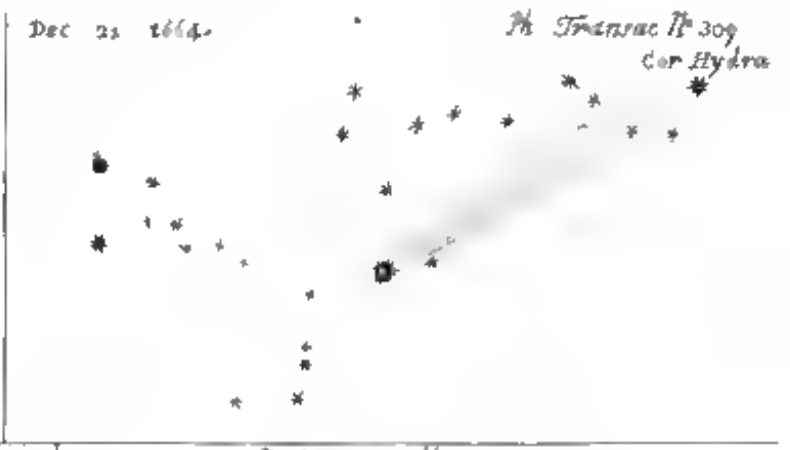
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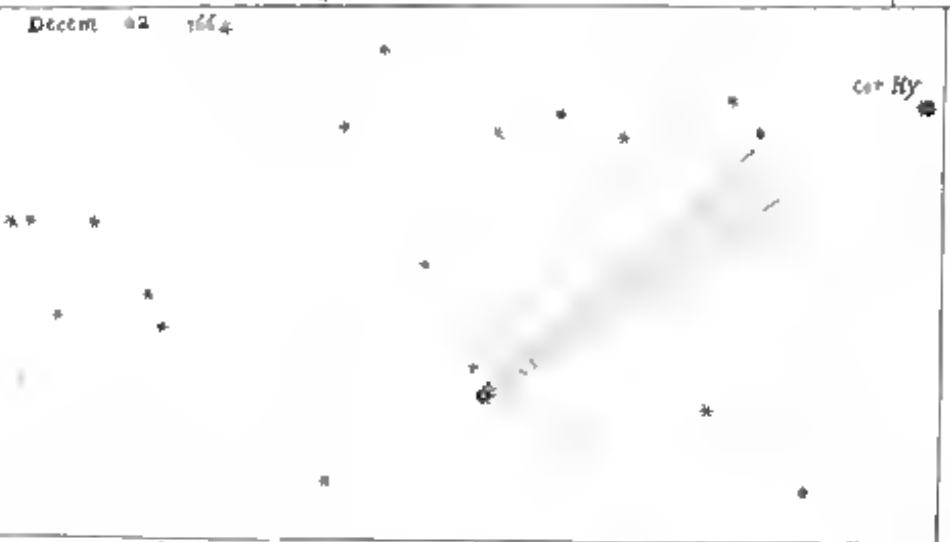
Cor Hydra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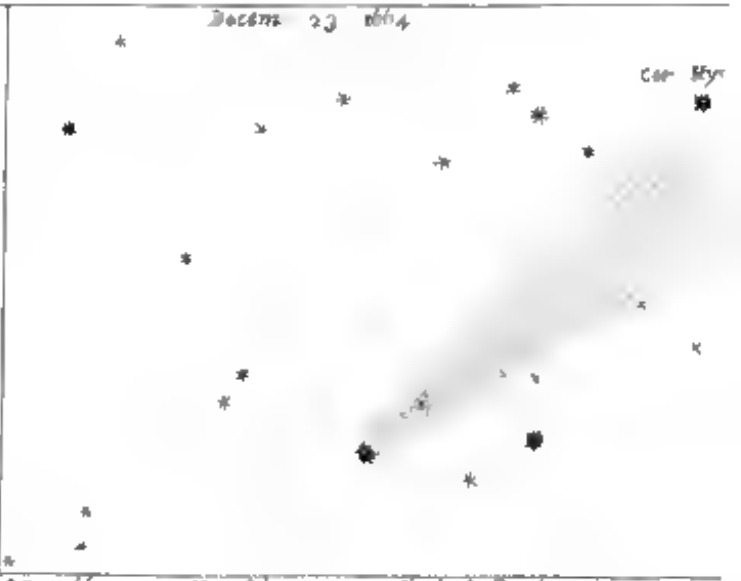
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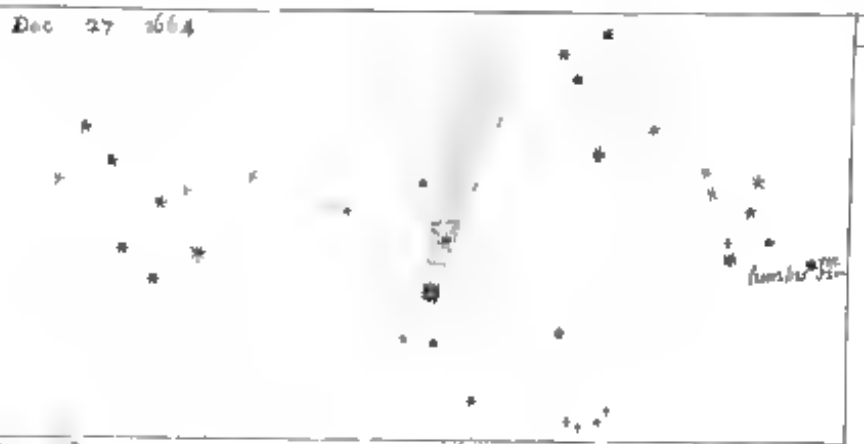
cor Hyr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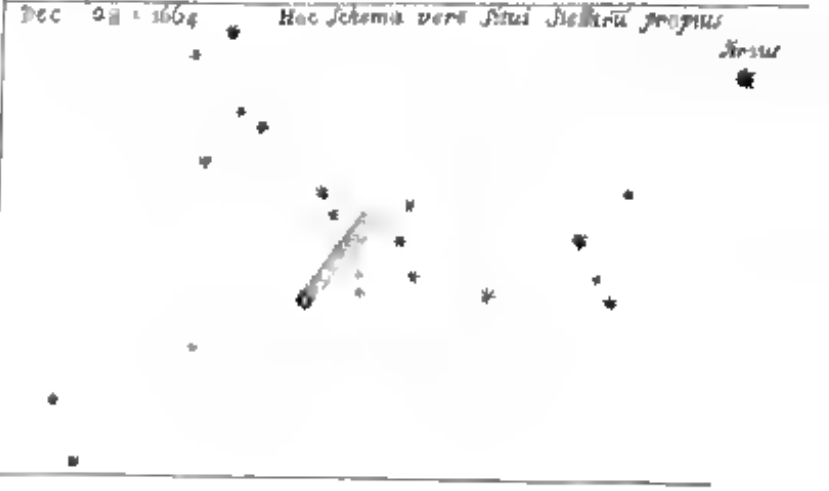
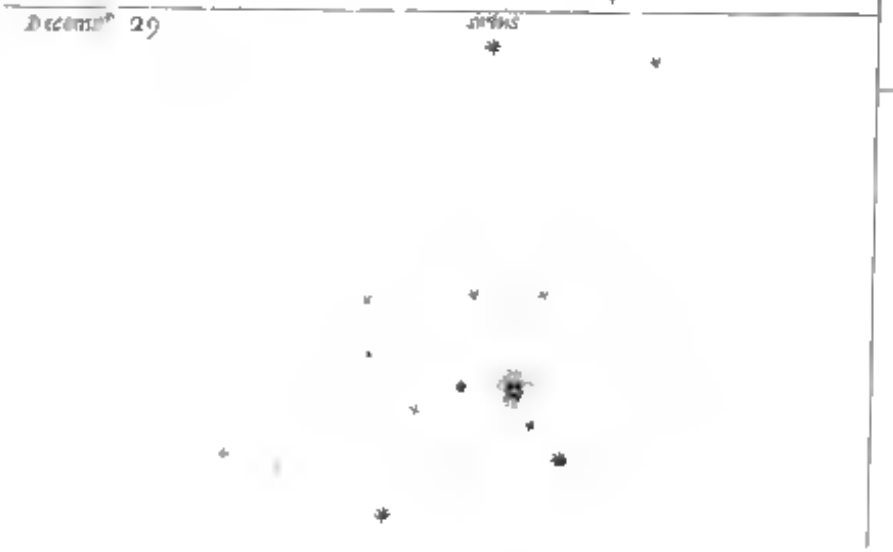

Dec 28 1664 Hoc Schema vere Situi Stellarū propius
Arcturus


Decemb 29
arcturus